

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the
Application:

1. (Cancelled)
2. (Cancelled, non-elected)
3. (Cancelled)

Claims 4-7. (Cancelled)

8. (Amended) An optical element forming method, comprising the steps of forming a multilayer film composed of high refractive index material and low refractive index material on a substrate to control a phase and an amplitude of emerging rays, and adjusting a wavefront phase of the emerging rays by cutting away a portion of a surface of the multilayer film in accordance with an amount of adjustment of the wavefront phase.

9. (Original) An optical element forming method according to claim 8, wherein the multilayer film is formed in a number of cycles larger than that necessary to saturate a reflectance.

10. (Previously Amended) An optical element forming method according to claim 8, wherein cutting-away of the multilayer film is controlled by detecting a difference between a plurality of materials that forms the multilayer film.

11. (Amended) An optical element forming method, comprising the steps of forming a multilayer film composed of high refractive index material and low refractive index material on a substrate in a number of cycles larger than that necessary to saturate a reflectance, further forming a correction film on the multilayer film, and cutting away a portion of a surface of the

HAYES SOLOWAY P.C.
130 W. CUSHING ST.
TUCSON, AZ 85701
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

13
Amend

Serial No. 09/890,143
Docket No. SHIG 19990241
Amendment B

correction film or the correction film and the multilayer film in accordance with an amount of adjustment of a wavefront phase of emerging rays.

Claims 12 - 27. (Cancelled)

HAYES SOLOWAY P.C.

130 W. CUSHING ST.
TUCSON, AZ 85701
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

AMENDMENTS TO THE DRAWINGS:

The attached sheets of drawings includes changes to the following:

Sheet 1: This sheet, which includes FIGS. 1 (a) and 1 (b), replaces the original sheet including FIG. 1. The word "vacum" was corrected to read --vacuum--. FIG. 1 on the bottom of the page was deleted. Figures 1 (a) and 1 (b) were appropriately labeled.

Sheet 2: This sheet, which includes FIGS. 2 (a) and 2 (b), replaces the original sheet including FIG. 2. FIG. 2 on the bottom of the page was deleted. Figures 2 (a) and 2 (b) were appropriately labeled.

Sheet 3: This sheet, which includes FIGS. 3 (a) and 3 (b), replaces the original sheet including FIG. 3. FIG. 3 on the bottom of the page was deleted. Figures 3 (a) and 3 (b) were appropriately labeled.

Sheet 6: The waves on the graph have been labeled appropriately to match the specification.

Sheet 7: This sheet, which includes FIGS. 8 (a), 8 (b), and 8 (c) replaces the original sheet including FIGS. 7 and 8. FIG. 8 on the bottom of the page was deleted. Figures 8 (a), 8 (b) and 8 (c) were appropriately labeled. FIG. 7 remains unchanged.

Sheet 8: This sheet, which includes FIGS. 9 (a) and 9 (b), replaces the original sheet including FIG. 9. FIG. 9 on the bottom of the page was deleted. Figures 9 (a) and 9 (b) were appropriately labeled.

Attachment: Replacement sheets - FIGS. 1, 2, 3, 6, 8 and 9 Amended